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OM nucleic - nucleic search, using sw model

Run on: January 15, 2004, 23:41:48 ; Search time 342 Seconds
(without alignments)
8296.592 Million cell updates/sec

Title: US-09-486-167a-1

Perfect score: 805
Sequence: 1 gccagagggcgagtggaag.....ttgtggttcggaaaaaa 805

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2324096 seqs, 1762381658 residues

Total number of hits satisfying chosen parameters: 4648192

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published Applications_NA:*

- 1: /cgn2_6/prodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/prodata/2/pubpna/PCR_NEW_PUB.seq:*
- 3: /cgn2_6/prodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/prodata/2/pubpna/US07_NEW_PUB.seq:*
- 5: /cgn2_6/prodata/2/pubpna/US08_NEW_PUB.seq:*
- 6: /cgn2_6/prodata/2/pubpna/US09_NEW_PUB.seq:*
- 7: /cgn2_6/prodata/2/pubpna/US10_NEW_PUB.seq:*
- 8: /cgn2_6/prodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/prodata/2/pubpna/US09_PUBCOMB.seq:*
- 10: /cgn2_6/prodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2_6/prodata/2/pubpna/US09_PUBCOMB.seq:*
- 12: /cgn2_6/prodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/prodata/2/pubpna/US10_PUBCOMB.seq:*
- 14: /cgn2_6/prodata/2/pubpna/US10_PUBCOMB.seq:*
- 15: /cgn2_6/prodata/2/pubpna/US10_PUBCOMB.seq:*
- 16: /cgn2_6/prodata/2/pubpna/US10_NEW_PUB.seq:*
- 17: /cgn2_6/prodata/2/pubpna/US60_NEW_PUB.seq:*
- 18: /cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	801.8	99.6	2429	US-10-198-846-14054	Sequence 14054, A
2	726	90.2	841	US-10-394-136-3	Sequence 3, Appl1
3	639.6	79.5	681	US-10-264-049-1339	Sequence 1339, Ap
4	552	68.6	563	US-09-535-459-611	Sequence 611, App
5	536.4	66.6	550	US-09-535-459-609	Sequence 609, App
6	525.4	65.3	535	US-09-535-459-613	Sequence 613, App
7	482	59.4	518	US-09-535-459-616	Sequence 616, App
8	439.8	54.6	495	US-09-535-459-610	Sequence 610, App
9	439.8	54.6	495	US-09-535-459-610	Sequence 610, App
10	423.6	52.6	550	US-09-535-459-608	Sequence 608, App
11	418	51.9	421	US-10-394-136-204	Sequence 204, App
12	418	51.9	421	US-10-394-136-204	Sequence 204, App
13	418	51.9	421	US-10-394-136-204	Sequence 204, App
14	417.2	51.8	551	US-10-264-049-1299	Sequence 1299, Ap
15	415.2	51.6	493	US-09-918-995-31713	Sequence 31713, A

16	401.2	49.8	504	US-10-394-136-10	Sequence 10, Appl
17	348.6	43.3	452	US-10-263-828-29	Sequence 29, Appl
18	338	42.0	353	US-09-919-580-760	Sequence 760, Appl
19	336.6	41.8	672	US-10-125-237-33	Sequence 33, Appl
20	336.6	41.8	672	US-10-105-891-33	Sequence 33, Appl
21	336.6	41.8	1015	US-10-198-846-13505	Sequence 13505, A
22	330.8	41.1	560	US-10-394-136-24	Sequence 24, Appl
23	325.2	40.4	446	US-10-198-846-6923	Sequence 6923, Ap
24	295	36.6	412	US-09-918-995-7800	Sequence 7800, Ap
25	278	34.5	278	US-09-535-459-607	Sequence 607, App
26	277	34.4	279	US-09-535-459-606	Sequence 606, App
27	262.2	32.6	348	US-09-535-459-615	Sequence 615, App
28	256	31.8	267	US-09-535-459-603	Sequence 603, App
29	249	30.9	249	US-10-394-136-7	Sequence 7, Appl1
30	233.8	29.0	420	US-09-918-995-5162	Sequence 5162, Ap
31	231.2	28.7	464	US-10-394-136-25	Sequence 25, Appl
32	230.8	28.7	261	US-10-394-136-11	Sequence 11, Appl
33	225	28.0	3736	US-10-074-024-537	Sequence 537, App
34	217.4	27.0	270	US-10-394-136-12	Sequence 12, Appl
35	216.8	26.7	248	US-09-535-459-605	Sequence 605, App
36	214.6	26.7	462	US-10-198-846-9502	Sequence 9502, Ap
37	204.2	25.4	262	US-09-878-178-776	Sequence 776, App
38	204.2	25.4	262	US-10-046-935-776	Sequence 776, App
39	204.2	25.4	262	US-10-146-502-776	Sequence 776, App
40	203.8	25.3	263	US-09-535-459-612	Sequence 612, App
41	199.2	24.7	237	US-09-535-459-602	Sequence 602, App
42	195	24.2	246	US-10-394-136-13	Sequence 13, Appl
43	188.6	23.4	264	US-10-394-136-14	Sequence 14, Appl
44	178.4	22.2	254	US-10-394-136-15	Sequence 15, Appl
45	177.2	22.0	182	US-10-394-136-9	Sequence 9, Appl1

ALIGNMENTS

RESULT 1
US-10-198-846-14054
; Sequence 14054, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steimann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14054
; LENGTH: 2429
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 478, 490, 563, 608, 2429
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-14054

Query Match 99.6%; Score 801.8; DB 15; Length 2429;
Best Local Similarity 99.6%; Pred. No. 2.7e-235;
Matches 803; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCCAGAGGCGGAGTGAAGTGGCCGCGGCGGCGGATGAGACTAGCTGCGGTGGCC 60
DB 1065 GCCAGAGGCGGAGTGAAGTGGCCGCGGCGGCGGATGAGACTAGCTGCGGTGGCC 1124
QY 61 CTGAGAGCTCAGCGGCGCTATATATCTGTCGTGGGCGCGGCGGCTAGTCTGCGGAGCG 120

Db	1125	CTGAGACGCTCAGCGGGCTATTA	CTCGTCCGTGGGGCGGGCGGTCA	AGTCTGGCGGACGC	1184
OY	121	GCAGCAAGACGGTGCATGAA	AGAGAGAGTGGCGCTGTGGCGGGGTCCG	CAGTTTACAGAGA	180
Db	1185	GCACGACAGACGGTGCAGTGA	AGAGAGAGTGGCGCTGTGGCGGGGTCCG	CAGTTTACAGAGA	1244
OY	181	GCCCGTGCAGCATTGCGCCCA	TAAAGGTGGGAGATGCGCAATCC	CAGCAGTGGAGGTGTT	240
Db	1245	GCCCGTGCAGCATTGCGCCCA	TAAAGGTGGGAGATGCGCAATCC	CAGCAGTGGAGGTGTT	1304
OY	241	GAAAGGGAGCAGGGAGCAAG	TGTAACCTGGCAGAGCTGTTCA	AGGGCAGAAAGGGTGTG	300
Db	1305	GAAAGGGAGCAGGGAGCAAG	TGTAACCTGGCAGAGCTGTTCA	AGGGCAGAAAGGGTGTG	1364
OY	301	CTGTTTGGAGTTCCTGGGG	CCCTTCAACCCCTTGATGTTCA	AGACACACTTGC	360
Db	1365	CTGTTTGGAGTTCCTGGGG	CCCTTCAACCCCTTGATGTTCA	AGACACACTTGC	1424
OY	361	GTGAGACAGCGCTGAGGCT	CTGAAGGGCCAAAGGAGTCC	AGGTGGTGGCCCTGTCTAGTGT	420
Db	1425	GTGAGACAGCGCTGAGGCT	CTGAAGGGCCAAAGGAGTCC	AGGTGGTGGCCCTGTCTAGTGT	1484
OY	421	AATGATGCTTTGTTGTA	CTGCGGAGTGGGGCCGAGCCCA	AGGCGGAGAGGCAAGGTTCG	480
Db	1485	AATGATGCTTTGTTGTA	CTGCGGAGTGGGGCCGAGCCCA	AGGCGGAGAGGCAAGGTTCG	1544
OY	481	CTCCTGCGTGAATCCCA	CTGGGGCCCTTTGGAGAGAGACA	CTTATTTA	540
Db	1545	CTCCTGCGTGAATCCCA	CTGGGGCCCTTTGGAGAGAGACA	CTTATTTA	1604
OY	541	CTGGTGTCCATCTTTGG	GAATCGAAGTCTCAAGAGTCTT	CCATGAGTGTACAGATGCG	600
Db	1605	CTGGTGTCCATCTTTGG	GAATCGAAGTCTCAAGAGTCTT	CCATGAGTGTACAGATGCG	1664
OY	601	ATAGTGAAGGCCCTGAT	GTGGAACAGATGGCAGAGCCT	CACCTTGAGCCTGGACCC	660
Db	1665	ATAGTGAAGGCCCTGAT	GTGGAACAGATGGCAGAGCCT	CACCTTGAGCCTGGACCC	1724
OY	661	AATATCATCTCA	CAGCTCTGAGGCCCTTGAGCCAGATT	ACTTCTTCACCCCTCCTATCT	720
Db	1725	AATATCATCTCA	CAGCTCTGAGGCCCTTGAGCCAGATT	ACTTCTTCACCCCTCCTATCT	1784
OY	721	CACCTGCCCAAGCCCTGT	GTGCGGGCCCTGCAATTTGGAAT	GTTTGGCGCAATTTTTCGCAATA	780
Db	1785	CACCTGCCCAAGCCCTGT	GTGCGGGCCCTGCAATTTGGAAT	GTTTGGCGCAATTTTTCGCAATA	1844
OY	781	AACACTGTGGTTTGGG	AAAAA	805	
Db	1845	AACACTGTGGTTTGGG	AAAAA	1869	
RESULT 2					
US-10-394-136-3					
; Sequence 3, Application US/10394136					
; Publication No. US20030175787A1					
; GENERAL INFORMATION:					
; APPLICANT: Hillman, Jennifer L.					
; APPLICANT: Yue, Henry					
; APPLICANT: Lal, Preeti					
; APPLICANT: Kaser, Matthew R.					
; TITLE OF INVENTION: VESICLE MEMBRANE PROTEINS					
; FILE REFERENCE: PC-0029 CIP					
; CURRENT APPLICATION NUMBER: US/10/394,136					
; CURRENT FILING DATE: 2003-03-19					
; PRIOR APPLICATION NUMBER: US/09/118,996					
; PRIOR FILING DATE: 2000-11-22					
; NUMBER OF SEQ ID NOS: 55					
; SOFTWARE: PERL Program					
; SEQ ID NO 3					
; LENGTH: 841					
; TYPE: DNA					
; ORGANISM: Homo sapiens					

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?   FEATURE:
?   NAME/KEY: misc_feature
?   OTHER INFORMATION: Incyte ID No. US20030175787a1 743725CB1
?
?   FEATURE:
?   NAME/KEY: unsure
?   LOCATION: 20, 57, 100, 145, 638, 665, 708, 717, 729, 746, 780, 791, 795
?   OTHER INFORMATION: a, t, c, g, or other
?   US-10-394-136-3

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Query Match	90.2%	Score 726;	DB 13;	length 841;
Best Local Similarity	97.7%	Pred. No. 3.4e-212;		
Matches 751; Conservative	0;	Mismatches 16;	Indels 2;	Gaps 27

QY	1	GCCAGGAGGCGGAGTGGAAAGTGGCCGTGGGGCGGGTATGGGACATAGCTGGCGTGGGCC	60
Db	75	GCCAGGAGGCGGAGTGGAAAGTGGCCGTGGGGCGGGTATGGGACATAGCTGGCGTGGGCC	134
QY	61	CTGAGACGCTCAGCGGGCTATATTAATCTCGTGGTGGGGCGGGCGGTCACTGTGGCGACGC	120
Db	135	CTGAGACGCTTATGCGGGCTATATTAATCTCGTGGTGGGGCGGGCGGTCAAGTCTGGCGGACG-G	193
QY	121	GCAGCAAGACGGTGGCAGTGAAGGAGAGAGTGGCGGTCTGGCGGGGTGCCAGATTTCAGCAGA	180
Db	194	GCAGCAAGACGGTGGCAGTGAAGGAGAGAGTGGCGGTCTGGCGGGGTGCCAGATTTCAGCAGA	253
QY	181	GCCGCTGACAGCATGGGCCCAATCAAGGTGGGAGATGCCATCCGACGAGTGGAGTGT	240
Db	254	GCCGCTGACAGCATGGGCCCAATCAAGGTGGGAGATGCCATCCGACGAGTGGAGTGT	313
QY	241	GAAGGGAGCCAGGGAACAAGGTGAACCTGGCAAGCTGTTCAAGGGCAAGAAAGGTGTG	300
Db	314	GAAGGGAGCCAGGGAACAAGGTGAACCTGGCAAGCTGTTCAAGGGCAAGAAAGGTGTG	373
QY	301	CTGTTTGAGATTCTCGGGGCTTCAACCCCTGGATGTTCAAGACAACAACCTGCCAGGGTTT	366
Db	374	CTGTTTGAGATTCTCGGGGCTTCAACCCCTGGATGTTCAAGACAACAACCTGCCAGGGTTT	433
QY	361	GTGAGACAGGCTGAGGCTCTGAAGGCGCAAGGGAAGTCCAGGTGGTGGGCTGTCTGAGTGT	420
Db	434	GTGAGACAGGCTGAGGCTCTGAAGGCGCAAGGGAAGTCCAGGTGGTGGGCTGTCTGAGTGT	493
QY	421	AATGATGCTTTTGTGACTGGCGAGTGGGGCGAGCCCAAGGCGGAAGCAAGTTCCG	480
Db	494	AATGATGCTTTTGTGACTGGCGAGTGGGGCGAGCCCAAGGCGGAAGCAAGTTCCG	553
QY	481	CTCTCGGCTGATCCCATGGGGGCTTTGGGGAAGGAGACAGCTTATTACTAGATGATTGG	540
Db	554	CTCTCGGCTGATCCCATGGGGGCTTTGGGGAAGGAGACAGCTTATTACTAGATGATTGG	613
QY	541	CTGGTGTCAATCTTTGGGAATGCAAGTCTCAAGAGGTTCTCATGGTGGTACAGATGGC	600
Db	614	CTGGTGTCAATCTTTGGGAATGCAAGTCTCAAGAGGTTCTCATGGTGGTAMAGATGGC	673
QY	601	ATAGTGAAGCCCTGATGTGGAAACAGATGGCAAGGCTCACCTGCAGCTGGCACCC	660
Db	674	ATAGTGAAGCCCTGATGTGGAAACAGATGGCAAGGCTCACCTGCAGCTGGCACCC	733
QY	661	AATATCATCTCACAGCTCTGAGGCGCTGGGCGAGATTACTTCTCTCACCCCTCCCTATCT	720
Db	734	AATATCATCTCANAGCTCTGAGGCGCTGGGCGAGATTACTTCTTCANCCCTCCCTATMT	792
QY	721	CACCTGCCAGGCGCTGTGCTGGGGGCGTGCATTGGATGTGGCGAGA	769
Db	793	CACCTGCCAGGCGCTGTGCTGGGGGCGTGCATTGGATGTGGCGAGA	841

RESULT 3
 US-10-264-049-1339
 ; Sequence 1339, Application US/10264049
 ; Publication No. US20040005579A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bire et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

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FILE REFERENCE: PA133P1
CURRENT APPLICATION NUMBER: US/10/264,049
CURRENT FILING DATE: 2002-10-04
PRIOR APPLICATION NUMBER: PCT/US01/18569
PRIOR FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: US 60/209,467
PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 4360
SOFTWARE: Patent In Ver. 3.1
SEQ ID NO 1339
LENGTH: 681
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (237)..(237)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (271)..(271)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (332)..(332)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (429)..(429)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (572)..(572)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (611)..(611)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc feature
LOCATION: (676)..(676)
OTHER INFORMATION: n equals a,t,g, or c
US-10-264-049-1339

Query Match          79.5%; Score 639.6; DB 12; Length 681;
Best Local Similarity 97.6%; Pred. No. 9.8e-186;
Matches 656; Conservative 0; Mismatches 15; Indels 1; Gaps 1;

QY 39 GGGACTAGCTGGGCTGTGGCCCTTGAAGACGCTCAGCGGGCTATATATCTGTCGGTGGGC 98
DB 2 GGGACTAGCTGGGCTGTGGCCCTTGAAGACGCTCAGCGGGCTATATATCTGTCGGTGGGC 61

QY 99 CGGCGGTAGTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 158
DB 62 CGGCGGTAGTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 121

QY 159 CGGCGGTAGTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 218
DB 122 CGGCGGTAGTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 181

QY 219 CATCCAGAGTGAAGGTGTTTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 278
DB 182 CATCCAGAGTGAAGGTGTTTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 241

QY 279 GTTCAAGGCGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 338
DB 242 GTTCAAGGCGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 301

QY 339 CAAGAACAACCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 398
DB 302 CAAGAACAACCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 361

QY 399 GGTGATGAGCTGTCTGAGTGTATATATGCTCTTTGACTGCGAGTGGGCGGAGCCCA 458

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DB 362 GGTGATGAGCTGTCTGAGTGTATATATGATGCTTTTGTGACTGCGAGTGGGCGGAGCCCA 421
QY 459 CAAGCGAGAGGCAAGGTTGCGCTCTGCTGATGCCACTGCGGCGCTTTTGGAGAGGAGAC 518
DB 422 CAAGCGAGAGGCAAGGTTGCGCTCTGCTGATGCCACTGCGGCGCTTTTGGAGAGGAGAC 481
QY 519 AACTTTATTACTAGATGATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 578
DB 482 AACTTTATTACTAGATGATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 541
QY 579 CTCGATGAGTGAAGAGGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 638
DB 542 CTCGATGAGTGAAGAGGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 601
QY 639 CCTCAGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 697
DB 602 CCTCAGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 661
QY 698 ACTTCTCCACC 709
DB 662 ACTTCTCCACC 673

RESULT 4
US-09-535-459-611
Sequence 611, Application US/09535459
Publication No. US20030040615A1
GENERAL INFORMATION:
APPLICANT: Seilhamer, Jeffrey J.
APPLICANT: Deleane, Angelo M.
APPLICANT: Stuart, Susan G.
APPLICANT: Stuve, Laura L.
APPLICANT: Mullahy, Sara J.
APPLICANT: Naughton, Rebecca B.
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULES
FILE REFERENCE: PD-1014 CIP
CURRENT APPLICATION NUMBER: US/09/535,459
PRIOR APPLICATION DATA REMOVED - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 2170
SOFTWARE: PERL Program
SEQ ID NO 611
LENGTH: 563
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01262379
US-09-535-459-611

Query Match          68.6%; Score 552; DB 11; Length 563;
Best Local Similarity 99.8%; Pred. No. 6.6e-159;
Matches 563; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 85 CTCGTCGATGGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 144
DB 1 CTCGTCGATGGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 60

QY 145 GAGTGGGCTCTGCGCGGAGTCCGAGTTTCAAGAGAGGCGGCGGCGGCGGCGGCGGCGGCGG 204
DB 61 GAGTGGGCTCTGCGCGGAGTCCGAGTTTCAAGAGAGGCGGCGGCGGCGGCGGCGGCGGCGG 120

QY 205 AAGGTGGAGATGCCATCCAGAGTGAAGGTGTTTGAAGGAGGAGGAGGAGGAGGAGGAGGAGG 264
DB 121 AAGGTGGAGATGCCATCCAGAGTGAAGGTGTTTGAAGGAGGAGGAGGAGGAGGAGGAGGAGG 180

QY 265 AACTGCGAGAGCTGTTTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 324
DB 181 AACTGCGAGAGCTGTTTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240

QY 325 ACCCTGATGTTTCAAGACAACCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 384
DB 241 ACCCTGATGTTTCAAGACAACCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300

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QY	385	GCCAAAGGAGTCCAGGTGGTGGCTGTGATGTATTGATGCTTTGTGACTGGGAG	4444
Db	301	GCCAAAGGAGTCCAGGTGGTGGCTGTGATGTATTGATGCTTTGTGACTGGGAG	3666
QY	445	TGGGGCCGAGCCCAAGGCGGAAGGCAAGGTTGCGACTCTGGCTGATCCACTGGGGCC	504
Db	361	TGGGGCCGAGCCCAAGGCGGAAGGCAAGGTTGCGACTCTGGCTGATCCACTGGGGCC	420
QY	505	TTTGGGAAGAGACAGACTTATTATCAGATGATTTGGCTGGTGTCCATCTTTGGGATCGA	564
Db	421	TTTGGGAAGAGACAGACTTATTATCAGATGATTTGGCTGGTGTCCATCTTTGGGATCGA	480
QY	565	GCTCTCAAGAGTTCTCCATGGTGGTACAGATGSCATATGTGAAGCCCTGAATGTGAA	624
Db	481	GCTCTCAAGAGTTCTCCATGGTGGTACAGATGSCATATGTGAAGCCCTGAATGTGAA	539
QY	625	CCAGATGGGACACAGGCTCACTGC	648
Db	540	CCAGATGGGACACAGGCTCACTGC	563

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RESULT 5
US-09-535-459-609
: Sequence 609, Application US/09553459
: Publication No. US20030040615A1
: GENERAL INFORMATION:
: APPLICANT: Seilhamer, Jeffrey J.
: APPLICANT: Delegeane, Angelo M.
: APPLICANT: Stuart, Susan G.
: APPLICANT: Stuve, Laura L.
: APPLICANT: Mulahy, Sara J.
: APPLICANT: Naughton, Rebecca E.
: TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE
: FILE REFERENCE: PD-1014 CIP
: CURRENT APPLICATION NUMBER: US/09/535,459
: PRIORITY FILING DATE: 2000-03-24
: Prior application data removed - consult PALM or file wrapper
: NUMBER OF SEQ. ID NOS: 2170
: SOFTWARE: PERL Program
: SEQ. ID NO 609
: LENGTH: 550
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: incycle ID No. US20030040615A1 hu01277533
: US-09-535-459-609

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Query Match	66.6%	Score 536.4	DB 11	Length 550
Best Local Similarity	99.6%	Pred. No. 4e-154		
Matches 548	Conservative 0	Mismatches 1	Indels 1	Gaps 1
Qy	96	GGCCGCGCGGTGAGTCTGCGCAGCCGGCAGCAAGACGCTGACGTGAAGAGAGATGGGCGCTC	155	
Db	1	GGCCGCGCGGTGAGTCTGCGCAGCCGGCAGCAAGACGCTGACGTGAAGAGAGATGGGCGCTC	60	
Qy	156	TGGCGGGGTCCGCAAGTTTCAGCAGAGCCGCTGCAGCCATGGCCCCAATCAAGTGGAGAA	215	
Db	61	TGGCGGGGTCCGCAAGTTTCAGCAGAGCCGCTGCAGCCATGGCCCCAATCAAGTGGAGAA	120	
Qy	216	TGCCATCCCAAGCAGTGAAGGTGTTTGAAGGGGAGCCAGGGAAACAAGTGAACCTGGCAGA	275	
Db	121	TGCCATCCCAAGCAGTGAAGGTGTTTGAAGGGGAGCCAGGGAAACAAGTGAACCTGGCAGA	180	
Qy	276	GCTGTTCAAGGGCAAGAGGGGTGTCTGTTTGGAGTTCTCTGGGCGCTTCACCCCGTGATG	335	
Db	181	GCTGTTCAAGGGCAAGAGGGGTGTCTGTTTGGAGTTCTCTGGGCGCTTCACCCCGTGATG	240	
Qy	336	TTTCAAGCAACCTGGCCAGGGGTTTGTGAGAGAGGCTGAGAGCTGAAAGGCCAAGGAGT	395	
Db	241	TTTCAAGCAACCTGGCCAGGGGTTTGTGAGAGAGGCTGAGAGCTGAAAGGCCAAGGAGT	300	

Qy	456	CCACAAAGCGGAAAGCAGAGTTCCGAGCTCTGGC--TGATCCCACTGGGGGCTTTGGGAAG	51.4
Db	361	CCACAAAGGGGAAAGCAGAGTTCCGAGCTCTGGCTTGATCCCACTGGGGGCTTTGGGAAG	42.0
Qy	515	AGACAGACTTTATTAAGATGATTGCGTGGTGCATCTTGGGAATCGAAGTCTCAGA	57.4
Db	421	AGACAGACTTTATTAAGATGATTGCGTGGTGCATCTTGGGAATCGAAGTCTCAGA	48.0
Qy	575	GGTTCTCCATGSGTGTACAGATGGCATATGGAAGGCCCTGATGTGAAACCAAGTGGCA	63.4
Db	481	GGTTCTCCATGSGTGTACAGATGGCATATGGAAGGCCCTGAAATGTGAAACCAAGTGGCA	54.0
Qy	635	CAGGCTTCAC	64.4
Db	541	CAGGCTTCAC	55.0

```

RESULT 6
US-09-535-459-613
: Sequence 613, Application US/09535459
: Publication No. US20030040615A1
: GENERAL INFORMATION:
: APPLICANT: Seilhamer, Jeffrey J.
: APPLICANT: Deleageane, Angelo M.
: APPLICANT: Stuart, Susan G.
: APPLICANT: Stuve, Laura L.
: APPLICANT: Mullahy, Sara J.
: APPLICANT: Naughton, Rebecca E.
: TITLE OR INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECUL
: FILE REFERENCE: PD-1014 CIP
: CURRENT APPLICATION NUMBER: US/09/535,459
: Prior application data removed - consult PALM or file wrapper
: NUMBER OF SEQ. ID NOS: 2170
: SOFTWARE: PERL Program
: SEQ ID NO 613
: LENGTH: 535
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01309738
US-09-535-459-613

```

	Query Match	Best Local Similarity	55.3%;	Score 525.4;	DB 11;	Length 535;
	Matches 523;	Conservative 0;	Mismatches 6;	Indels 0;	Gaps 0;	
QY	20	GTGGCCGTGGGGCGGGATATGGGACTAGCTGGCGGTGTCGCCCTTGGAGACGCTCAGCGGGCT	79			
Db	1	GTGGCCGTGGGGCGGGATATGGGACTAGCTGGCGGTGTCGCCCTTGGAGACGCTCAGCGGGCT	60			
QY	80	ATATATCTGTCGGTGGGGCCGGCGGTAGTCTGCGGCAGCGGCAGCAAGACGGTGCAGTG	139			
Db	61	ATATATCTGTCGGTGGGGCCGGCGGTAGTCTGCGGCAGCGGCAGCAAGACGGTGCAGTG	120			
QY	140	AAGGAGGTGGGGCTCTGGCGGGGGTCCGCAATTCAACAGACGGCTGCAGGCCATATGGCC	199			
Db	121	AAGGAGGTGGGGCTCTGGCGGGGGTCCGCAATTCAACAGACGGCTGCAGGCCATATGGCC	180			
QY	200	CAATCAAGGTGGGGAGATCCATCCACACAGTGGAGTGTGTTGAAGGGGAGCCAGGAAACA	259			
Db	181	CAATCAAGGTGGGGAGATCCATCCACACAGTGGAGTGTGTTGAAGGGGAGCCAGGAAACA	240			
QY	260	AGGTGAACCTGGGCAGAGCTGTTCAAGGGCAAGAGGGTGTGCTGTTTGAATTTCTTGAGG	319			
Db	241	AGGTGAACCTGGGCAGAGCTGTTCAAGGGCAAGAGGGTGTGCTGTTTGAATTTCTTGAGG	300			
QY	320	CCTTCAACCCCTGGATGTTCCAGACACACTGCCAGGGTTGTGAGCAGGGCTGAGGCTC	379			

```

Db      301 CTTTACCCCTGGATGTTTCAAGACACACTGCGCAGGGTTTGTGAGCGCGCTGAGGCTC 360
Qy      380 TGAAGGCCCAAGGAGTCAAGTGTGCGCTGCTGATGTTAATATGCTTTGTGATC 439
Db      361 TGAAGGCCCAAGGAGTCAAGTGTGCGCTGCTGATGTTAATATGCTTTGTGATC 420
Qy      440 GCGAGTGGGCGCAGGCCCAAGGCGGAAAGGCAAGGTTGCGCTGCTGATGCCACTG 499
Db      421 GCGAGTGGGCGCAGGCCCAAGGCGGAAAGGCAAGGTTGCGCTGCTGATGCCACTG 480
Qy      500 GCGGCTTTGGGAAGGAGACAGACTTATTCTAGATATTTCGTGGTGTCCACTT 554
Db      481 GCGGCTTTGGGAAGGAGACAGACTTATTCTAGATATTTCGTGGTGTCCACTT 535

```

RESULT 7

```

US-09-535-459-610
; Sequence 610, Application US/09535459
; Publication No. US20030040615A1
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Deleane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE
; FILE REFERENCE: PD-1014 CIP
; CURRENT APPLICATION NUMBER: US/09/535,459
; PRIOR APPLICATION DATE: 2000-03-24
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2170
; SOFTWARE: PERL Program
; SEQ ID NO 610
; LENGTH: 518
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01313696
US-09-535-459-610

```

Query Match 59.9%; Score 482; DB 11; Length 518;
 Best Local Similarity 99.4%; Pred. No. 1.9e-137;
 Matches 515; Conservative 0; Mismatches 0; Indels 3; Gaps 3;

```

Qy      20 GTGGCCGTGGGCGGGTATG-GGACTAGCTGGCGGTGCGCCCTGAGACGCTCAGCGGCG 78
Db      1 GTGGCCGTGGGCGGGTATGGAAGTGGCGGTGCGCCCTGAGACGCTCAGCGGCG 60
Qy      79 TATTAATCTGCTGGTGGGCGCGCGCTGCTGCGGCGAGCGGCAAGACGGTGCAT 138
Db      61 TATTAATCTGCTGGTGGGCGCGCGGTGCTGCGGCGAGCGGCAAGACGGTGCAT 120
Qy      139 GAAGAGAGTGGGCGCTGCGGCGGGTCCGCAAGTTTCAAGCAGAGCGGCTCAGCATG 198
Db      121 GAAGAGAGTGGGCGCTGCGGCGGGTCCGCAAGTTTCAAGCAGAGCGGCTCAGCATG 180
Qy      199 CCAATCAAGTGGGAGATCCATCCAGCAGTGGAGGTGTTGAA-GGGAGACCGAGAA 257
Db      181 CCAATCAAGTGGGAGATCCATCCAGCAGTGGAGGTGTTGAAATGGGAGACCGAGAA 240
Qy      258 CAAGTGAACCTGGCAGACTGTTCAAGGCGAAGAGGTGCTGTTTGGAGTTCTCG 317
Db      241 CAAGTGAACCTGGCAGACTGTTCAAGGCGAAGAGGTGCTGTTTGGAGTTCTCG 300
Qy      318 GGCCTTCAACCCCTGATGTTTCAAGACACCTGCGCAGGGTTTGTGAGCAGGCTGAGGC 377
Db      301 GGCCTTCAACCCCTGATGTTTCAAGACACCTGCGCAGGGTTTGTGAGCAGGCTGAGGC 360
Qy      378 TCTGAAGGCCAAGGAGTCCAGGTGGCTGTCTGAGTGTAAATGATGCTTTGTGAC 437

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Db      361 TCTGAAGGCCAAGGAGTCCAGGTGGCTGTCTGAGTGTAAATGATGCTTTGTGAC 420
Qy      438 TGGCAGTGGGCGCAGGCCCAAGCGGAAAG-CAAGGTTGGGCTCTGCTGATCCCA 496
Db      421 TGGCAGTGGGCGCAGGCCCAAGCGGAAAGGCAAGGTTGGGCTCTGCTGATCCCA 480
Qy      497 CTGGGCGCTTTGGGAAGGAGACAGACTTATTCTAGAT 534
Db      481 CTGGGCGCTTTGGGAAGGAGACAGACTTATTCTAGAT 518

```

RESULT 8

```

US-09-535-459-616
; Sequence 616, Application US/09535459
; Publication No. US20030040615A1
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Deleane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE
; FILE REFERENCE: PD-1014 CIP
; CURRENT APPLICATION NUMBER: US/09/535,459
; PRIOR APPLICATION DATE: 2000-03-24
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2170
; SOFTWARE: PERL Program
; SEQ ID NO 616
; LENGTH: 462
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01007235
US-09-535-459-616

```

Query Match 57.4%; Score 462; DB 11; Length 462;
 Best Local Similarity 100.0%; Pred. No. 2.4e-131;
 Matches 462; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy      9 GCGAGTGAAGTGGCGCGGTATGGAAGTGGCGCTGCGCCCTGAGACG 68
Db      1 GCGAGTGAAGTGGCGCGGTATGGAAGTGGCGCTGCGCCCTGAGACG 60
Qy      69 CTCAGCGGCTATATATCTGCTGCTGGGCGCGGCTGCTGCGGCGAGCGGCAAG 128
Db      61 CTCAGCGGCTATATATCTGCTGCTGGGCGCGGCTGCTGCGGCGAGCGGCAAG 120
Qy      129 AGGTGAGTGAAGGAGTGGCGGTGCGGCGGGTCCGCAAGTTTCAAGAGCGGCTG 188
Db      121 AGGTGAGTGAAGGAGTGGCGGTGCGGCGGGTCCGCAAGTTTCAAGAGCGGCTG 180
Qy      189 AGCCATGGCCCAATCAAGTGGGAGATGCCATCCAGCAGTGGAGGTGTTGAAAGGGA 248
Db      181 AGCCATGGCCCAATCAAGTGGGAGATGCCATCCAGCAGTGGAGGTGTTGAAAGGGA 240
Qy      249 GCCAGGAAACAAAGTGAACCTGGCAGAGCTGTTCAAGGCGAAGAGGTGCTGTTGG 308
Db      241 GCCAGGAAACAAAGTGAACCTGGCAGAGCTGTTCAAGGCGAAGAGGTGCTGTTGG 300
Qy      309 AGTTCCTGGGCGCTTACCCCTGAGATGTTTCAAGACACCTGCGCAGGGTTTGTGAGCA 368
Db      301 AGTTCCTGGGCGCTTACCCCTGAGATGTTTCAAGACACCTGCGCAGGGTTTGTGAGCA 360
Qy      369 GGCAGGCTCTGAAGGCCAAGGAGTCCAGGTGGCTGTCTGAGTGTAAATGATGC 428
Db      361 GGCAGGCTCTGAAGGCCAAGGAGTCCAGGTGGCTGTCTGAGTGTAAATGATGC 420
Qy      429 CTTTGTGACTGGCGAGTGGGCGGAGCCCAAGGCGGAAAG 470
Db      421 CTTTGTGACTGGCGAGTGGGCGGAGCCCAAGGCGGAAAG 462

```

RESULT 9

US-09-918-995-24646
; Sequence 24646, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24646
; LENGTH: 495
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(495)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-24646

Query Match 54.6%; Score 439.8; DB 11; Length 495;
Best Local Similarity 98.2%; Pred. No. 1,6e-124;
Matches 444; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 305 TTGGAGTTCCTGGGGCTTACCCCTGATGTTCCAGACACACTCCAGGGTTTGTG 364
DB 44 TAGCANTAGCAAAAGGCTTCAACCCCTGATGTTCCAGACACACTCCAGGGTTTGTG 103
QY 365 AGCAGGCTGAGGCTCTGAAGGCCCAAGGAGTCCAGGTGCTGTCTGAGTTTATG 424
DB 104 AGCAGGCTGAGGCTCTGAAGGCCCAAGGAGTCCAGGTGCTGTCTGAGTTTATG 163
QY 425 ATGCTTTTGTGACTGGGAGTGGGGCCGAGCCCAAGGGGGAAGGAAGTTCCGGTCC 484
DB 164 ATGCTTTTGTGACTGGGAGTGGGGCCGAGCCCAAGGGGGAAGGAAGTTCCGGTCC 223
QY 485 TGGGTATCCCACTGGGGCTTTTGGGAAGGAGACAGACTTATTACTAGATTCGCTGG 544
DB 224 TGGGTATCCCACTGGGGCTTTTGGGAAGGAGACAGACTTATTACTAGATTCGCTGG 283
QY 545 TGTCATCTTTGGGAATCGAGTCTCAAGAGTTCTCATGTGTGTACAGAGATGGCATAG 604
DB 284 TGTCATCTTTGGGAATCGAGTCTCAAGAGTTCTCATGTGTGTACAGAGATGGCATAG 343
QY 605 TGAAGCCCTGTAATGTGGAACCAATGACAGGCTTCACTGACGCTGGCACCCATA 664
DB 344 TGAAGCCCTGTAATGTGGAACCAATGACAGGCTTCACTGACGCTGGCACCCATA 403
QY 665 TCATCTCAGAGCTCTGAGGCGCTGGGCGAGATTACTTCTCCAGCCCTCTATCTCAC 724
DB 404 TCATCTCAGAGCTCTGAGGCGCTGGGCGAGATTACTTCTCCAGCCCTCTATCTCAC 463
QY 725 TGCCAGCCCTGTGTCTGGGGCTTGCATTGG 756
DB 464 TGCCAGCCCTGTGTCTGGGGCTTGCATTGG 495

RESULT 10

US-09-535-459-608
; Sequence 608, Application US/09535459
; Publication No. US20030040615A1
; GENERAL INFORMATION:
; APPLICANT: Seilheimer, Jeffrey J.
; APPLICANT: Deleage, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.

; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECUL-
; FILE REFERENCE: PD-1014 CIP
; CURRENT APPLICATION NUMBER: US/09/535,459
; CURRENT FILING DATE: 2000-03-24
; Prior application data removed - consult PAM or file wrapper
; NUMBER OF SEQ ID NOS: 2170
; SOFTWARE: PERL Program
; SEQ ID NO 608
; LENGTH: 550
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01127950
US-09-535-459-608

Query Match 52.6%; Score 423.6; DB 11; Length 550;
Best Local Similarity 94.7%; Pred. No. 1.5e-119;
Matches 460; Conservative 0; Mismatches 24; Indels 2; Gaps 2;

QY 149 GGGCGTCTGGGGGGTGGCGAGTTTCAGCAGAGCGCTGACAGCATGCCCCAATCAAG 208
DB 56 GGACACTTACGTGCAACGATGTTCCAGAGCCGCTGAGCCATGAGCCATCAAG 115
QY 209 TGGAGATCCATCCAGCAGTGAAGTGTGAAGGGAGCCAGGAACAAGTGAAC 268
DB 116 TGGAGATCCATCCAGCAGTGAAGTGTGAAGGGAGCCAGGAACAAGTGAAC 175
QY 269 TGGCAGCTGTTCAGAGGCAAGAGGTGTCTGTTGAGTTCCTGGGGCTTACCC 328
DB 176 TGGCAGCTGTTCAGAGGCAAGAGGTGTCTGTTGAGTTCCTGGGGCTTACCC 235
QY 329 CTGGATGTTCCAGACACACTGCCAGGTTTGTGAGCAGGCTGAGGCTGAAGCCA 388
DB 236 CTGGATGTTCCAGACACACTGCCAGGTTTGTGAGCAGGCTGAGGCTGAAGCCA 295
QY 389 AGGAGTCCAGGTGTGTGCTGTCTGAGTGTATGATGCTTTGTGACTGGCGAGTGG 448
DB 296 AGGAGTCCAGGTGTGTGCTGTCTGAGTGTATGATGCTTTGTGACTGGCGAGTGG 355
QY 449 GCCGAGCCCAAGGCGGAAGGCAAGTTCGCTCTGCTGTATCCACTGGGGCTTTG 508
DB 356 GCCGAGCCCAAGGCGGAAGGCAAGTTCGCTCTGCTGTATCCACTGGGGCTTTG 415
QY 509 GGAAGGACAGCTTATTACTAGATGATTCGCTGGTTCATCTTGGGAATCGACGT 568
DB 416 GGAAGGACAGCTTATTACTAGATGATTCGCTGGTTCATCTTGGGAATCGACGT 475
QY 569 TCA-AGAGTTCTCCATGTGTGTACAGATGAGATGAGGCTGAAATGGAACCA 627
DB 476 TCA-AGAGTTCTCCATGTGTGTGTACAGATGAGATGAGGCTGAAATGGAACCA 534
QY 628 GATGGC 633
DB 535 GATGGC 540

RESULT 11

US-09-920-300A-204/C
; Sequence 204, Application US/09920300A
; Patent No. US20020136728A1
; GENERAL INFORMATION:
; APPLICANT: King, Gordon E.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Xu, Jiangchun
; APPLICANT: Societ, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.547
; CURRENT APPLICATION NUMBER: US/09/920,300A
; CURRENT FILING DATE: 2001-07-31

NUMBER OF SEQ ID NOS: 1789
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 204
LENGTH: 421
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
LOCATION: 32, 339, 363
OTHER INFORMATION: n = A,T,C or G
US-09-920-300A-204

Query Match
Best Local Similarity 51.9%; Score 418; DB 10; Length 421;
Matches 418; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 218 CCATCCCAAGAGTGAAGGTTGTAAGGGAGCCAGGAAACAAGTGAACCTGGCAGAC 277
DB 421 CCATCCCAAGAGTGAAGGTTGTAAGGGAGCCAGGAAACAAGTGAACCTGGCAGANC 362
QY 278 TGTTCAGGGCAAGAGGTTGCTGTTGAGATTCTGGGGCTTCACTCCGTGATGTT 337
DB 361 TGTTCAGGGCAAGAGGTTGCTGTTGAGATTCTGGGGCTTCACTCCGTGATGTT 302
QY 338 CCAAGACACCTGCGAGGTTTGTGAGACAGCTGAGGCTTGAAGGCCAAGGAGTCC 397
DB 301 CCAAGACACCTGCGAGGTTTGTGAGACAGCTGAGGCTTGAAGGCCAAGGAGTCC 242
QY 398 AGGTGGTGGCTGTCTGAGTGTAAATGATGCTTTGTACTGGCCAGTGGGCCGAGCCC 457
DB 241 AGGTGGTGGCTGTCTGAGTGTAAATGATGCTTTGTACTGGCCAGTGGGCCGAGCCC 182
QY 458 ACAAGGCGAAGGCAAGGTTGCGCTGCTGATCCCACTGGGGCTTTGGGAAAGAGA 517
DB 181 ACAAGGCGAAGGCAAGGTTGCGCTGCTGATCCCACTGGGGCTTTGGGAAAGAGA 122
QY 518 CAGACTTATTACTAGATGATGCTGCTGCTGCTCACTTTGGGAATGACGCTTCAAGAGT 577
DB 121 CAGACTTATTACTAGATGATGCTGCTGCTGCTCACTTTGGGAATGACGCTTCAAGAGT 62
QY 578 TCTCCATGTTGTAAGATGATGCTGCTGCTGCTCACTTTGGGAATGACGCTTCAAGAGT 637
DB 61 TCTCCATGTTGTAAGATGATGCTGCTGCTGCTCACTTTGGGAATGACGCTTCAAGAGT 2
QY 638 G 638
DB 1 G 1

RESULT 12

US-10-099-926-204/c
Sequence 204, Application US/10099926
Publication No. US20030166064A1
GENERAL INFORMATION:
APPLICANT: King, Gordon E.
APPLICANT: Meagher, Madeline Joy
APPLICANT: Xu, Jiangchun
APPLICANT: Secrist, Heather
APPLICANT: Jiang, Yugu
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.547C2
CURRENT APPLICATION NUMBER: US/10/099,926
CURRENT FILING DATE: 2002-03-17
NUMBER OF SEQ ID NOS: 1982
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 204
LENGTH: 421
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
LOCATION: 32, 339, 363

OTHER INFORMATION: n = A,T,C or G
US-10-099-926-204

Query Match
Best Local Similarity 51.9%; Score 418; DB 13; Length 421;
Matches 418; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 218 CCATCCCAAGAGTGAAGGTTGTAAGGGAGCCAGGAAACAAGTGAACCTGGCAGAC 277
DB 421 CCATCCCAAGAGTGAAGGTTGTAAGGGAGCCAGGAAACAAGTGAACCTGGCAGANC 362
QY 278 TGTTCAGGGCAAGAGGTTGCTGTTGAGATTCTGGGGCTTCACTCCGTGATGTT 337
DB 361 TGTTCAGGGCAAGAGGTTGCTGTTGAGATTCTGGGGCTTCACTCCGTGATGTT 302
QY 338 CCAAGACACCTGCGAGGTTTGTGAGACAGCTGAGGCTTGAAGGCCAAGGAGTCC 397
DB 301 CCAAGACACCTGCGAGGTTTGTGAGACAGCTGAGGCTTGAAGGCCAAGGAGTCC 242
QY 398 AGGTGGTGGCTGTCTGAGTGTAAATGATGCTTTGTGACTGGCGAGTGGGCCGAGCCC 457
DB 241 AGGTGGTGGCTGTCTGAGTGTAAATGATGCTTTGTGACTGGCGAGTGGGCCGAGCCC 182
QY 458 ACAAGGCGAAGGCAAGGTTGCGCTGCTGATCCCACTGGGGCTTTGGGAAAGAGA 517
DB 181 ACAAGGCGAAGGCAAGGTTGCGCTGCTGATCCCACTGGGGCTTTGGGAAAGAGA 122
QY 518 CAGACTTATTACTAGATGATGCTGCTGCTGCTCACTTTGGGAATGACGCTTCAAGAGT 577
DB 121 CAGACTTATTACTAGATGATGCTGCTGCTGCTCACTTTGGGAATGACGCTTCAAGAGT 62
QY 578 TCTCCATGTTGTAAGATGATGCTGCTGCTGCTCACTTTGGGAATGACGCTTCAAGAGT 637
DB 61 TCTCCATGTTGTAAGATGATGCTGCTGCTGCTCACTTTGGGAATGACGCTTCAAGAGT 2
QY 638 G 638
DB 1 G 1

RESULT 13

US-10-033-528-204/c
Sequence 204, Application US/10033528
Publication No. US20020131971A1
GENERAL INFORMATION:
APPLICANT: King, Gordon E.
APPLICANT: Meagher, Madeline Joy
APPLICANT: Xu, Jiangchun
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.547C1
CURRENT APPLICATION NUMBER: US/10/033,528
CURRENT FILING DATE: 2001-12-26
NUMBER OF SEQ ID NOS: 1896
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 204
LENGTH: 421
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
LOCATION: 32, 339, 363
OTHER INFORMATION: n = A,T,C or G
US-10-033-528-204

Query Match
Best Local Similarity 51.9%; Score 418; DB 14; Length 421;
Matches 418; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 218 CCATCCCAAGAGTGAAGGTTGTAAGGGAGCCAGGAAACAAGTGAACCTGGCAGAC 277
DB 421 CCATCCCAAGAGTGAAGGTTGTAAGGGAGCCAGGAAACAAGTGAACCTGGCAGANC 362


```

Oy      27  TGTTCAAAGGCGAAGAGGGGTGCTGTTTGAGGTTCTCGAGGACCTTCAACCCCTGGATGT 3337
Db      361  TGTTCAAAGGCGAAGAGGGGTGCTGTTTGAGGTTCTCGAGGACCTTCAACCCCTGGATGT 302
Oy      338  CCAAGACACACCTGCCAGGGGTTTGTGTGACAGGCTGAGGCTCTGAAAGCCAAAGGAGTCC 3377
Db      301  CCAAGACACACCTGCCAGGGGTTTGTGTGACAGGCTGAGGCTCTGAAAGCCAAAGGAGTCC 2422
Oy      398  AGGTGTGTGGCTCTGTCTGAGGTTTAATGATAGCTTTGTGTGACTGTGCGAAGTGGGGCCGAGCCC 457
Db      241  AGGTGTGTGGCTCTGTCTGAGGTTTAATGATAGCTTTGTGTGACTGTGCGAAGTGGGGCCGAGCCC 1822
Oy      458  ACAAGGCGGAAGGCGAAGGTTTCGGCTCTCGGCTGATCCCACTGGGGCCCTTTGGGAAGAGA 5171
Db      181  ACAAGGCGGAAGGCGAAGGTTTCGGCTCTCGGCTGATCCCACTGGGGCCCTTTGGGAAGAGA 1222
Oy      518  CAGACTTATTACTAGATGATGATTCGCTGTGTCTCATCTTTGGGAATGACGTCTCAAGAGGT 5777
Db      121  CAGACTTATTACTAGATGATGATTCGCTGTGTCTCATCTTTGGGAATGAGTCTCAAGAGGT 62
Oy      578  TCTTCATGTGTGTATCAGATGCGATGTGTGAAGGCCCTGAATGTGGAACAGATGGCAAG 6377
Db      61  TCTTCATGTGTGTATCAGATGCGATGTGTGAAGGCCCTGAATGTGGAACAGATGGCAAG 2
Oy      638  G 638
Db      1  G 1

RESULT 14
US-10-264-049-1299
; Sequence 1299, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birste et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P1133P1
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1299
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (343)..(343)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (377)..(377)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (391)..(391)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (414)..(414)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (420)..(421)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (477)..(477)

```

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OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (485)..(485)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (511)..(511)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (537)..(537)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (551)..(551)
OTHER INFORMATION: n equals a,t,g, or c
US-10-264-049-1299

Query Match      51.8%; Score 417.2; DB 12; Length 551;
Match Local Similarity 93.3%; Pred. No. 1.4e-117;
Matches 476; Conservative 0; Mismatches 26; Indels 8; Gaps 4

QY   GGAGCGGATATGGACTAGCTGTGCCTGCCCTTGACCCCTGACCGCGGCTATAATATC 87
DB   2    GGGGCGGGTATGGAACTAAGCTGGGGTTGCCCCCTGAAGCGCTACGCGGATATATC 61

QY   88  GTCCGTGGGGCGGCGGTCACTTCGCGCACCGGACACAACGGTGCAGTGAAGAAG 147
DB   62  GTCCGTGGGGCGGCGGTCACTTCGCGCACCGGACACAACGGTGCAGTGAAGAAG 121

QY   148 TGGGCGCTTCGGCGGGGGTCCCAGATTACAGCAGACCCTGACCATGGCCCCATCAAG 207
DB   122 TGCGCGCTTCGGCGGGGTCCGAGTTTACAGCAGACCGCTGACCATGGCCCCATCAAG 181

QY   208 GTGGAGATGTCATCCACAGCAGTAGAGGTGTTGAAGGGAGCCAGGGAACAGGTGAAC 267
DB   182 GTGGAGATGTCATCCACAGCAGTAGAGGTGTTGAAGGGAGCCAGGGAACAGGTGAAC 241

QY   268 CTGGCAGAGCTGTTCAAAGGGGCAAGAAGGGTGTCTGTTGGAGTTCTGGGGCCTTACC 327
DB   242 CTGGCAGAGCTGTTCAAAGGGGCAAGAAGGGTGTCTGTTGGAGTTCTGGGGCCTTACC 301

QY   328 CCGTAGATGTTCCAAGACACACACTCCCGAGGTTTTGTGAGCAGCGCTGAAGGCTCTGAAGGCC 387
DB   302 CTGGAGATGTTCCAAGACACACACTCCCGAGGTTTTGTGAGCAGCGCTCTTAAGGCC 361

QY   388 AAGGAGATCCAGGTGTGTGGCTGTCTGTAGSTTATGATGCTTTGTGACTGSCAGATGG 447
DB   362 AAGGAGATCCAGGTGTGTGGCTGTCTGTAGSTTATGATGCTTTGTGACTGSCAGATGG 419

QY   448 GCCGAGCCCAAGCGGGAAGGCAAGGTTGGCTCTGGCTGATCCACTGGGGCCTTT 507
DB   420 NNC--GACCCACAAGGCGGAAGGCAAGG-TGGGCTTGTGGCTGATCCACTGGGG---CTT 473

QY   508 GGGAAAGACACACTTATTCTAGATGAT 537
DB   474 TGGNAAGACACGACTTAAATACCTAGATGAT 503

RESULT 15
US-09-918-995-31713
Sequence 31713, Application US/09918995
Publication No. US20030073623A1
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918..995
CURRENT FILING DATE: 2001-07-30
PRIORITY APPLICATION NUMBER: US/09/235..076
PRIOR FILING DATE: 1999-01-20
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; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FASTSEQ for Windows Version 3.0.
; SEQ ID NO 31713
; LENGTH: 493
; TYPE: DNA
; ORGANISM: Homo sapiens
;
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1) ... (493)
; OTHER INFORMATION: n = A, T, C or G
US-09-918-995-31713

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Query Match	51.6%;	Score 415.2;	DB 11;	Length 493;
Best Local Similarity	97.3%;	Pred. No. 5.5e-117;		
Matches 431, Conservative	0;	Mismatches 11;	Indels 1;	Gaps 11

OY	108	GTCTCCGACGCGGACAGCAACGCTGAGTGAAGAGAGTGGCCTCTCGCCGGGTCGG	167
Db	51	GTCGCGGACGCGGACAGCAACGCTGAGTGAAGAGAGTGGCCTCTCGCGGGTCGG	110
OY	168	CAGTTTCAGCAGACGCGCTGCACGCCATGGCCCCCAATCAAGTGGAGATGCCATCCGAGC	227
Db	111	CAGTTTCAGCAGACGCGCTGCACGCCATGGCCCCCAATCAAGTGGAGATGCCATCCGAGC	170
OY	228	AGTGAAGGCTTTGAAGGGGAGCCACGGGAAACAAGTGAACCTGGCAGACTGTTCAAAGG	287
Db	171	AGTGAAGGCTTTGAAGGGGAGCCACGGGAAACAAGTGAACCTGGCAGAGCTGTTCAAAGG	230
OY	288	CAAGAAAGGCTGTCTGTTTGGAGTTCTCTGGGGCTTCACCCCTGATGTTCCAAAGACAC	347
Db	231	CAAGAAAGGCTGTCTGTTTGGAGTTCTCTGGGGCTTCACCCCTGATGTTCCAAAGACAC	290
OY	348	CCTGCCAAGGCTTTGGTAGACAGGCTGAAGCTCTGAAGGCCAAGGAGTCCAGGTGTGGC	407
Db	291	CCTGCCAAGGCTTTGGTAGACAGGCTGAAGCTCTTGGGCCAAGGAGTCCACGTGTGGC	350
OY	408	CTGTCTGAGTGTTAATGATAGCCCTTGTGACTGGCGAGTGGGGGCCAGGCCACAAAGCGGA	467
Db	351	CTGTCTGAGTGTTAATGATAGCTTGTGTACTGACAGTGGGGGCCAGGCCACAAAGCGGA	410
OY	468	AGGCAAGGTCGGGCTCTGGCTGATCCAC-TGGGGCCTTTGGGAAGAGACAGACTTAT	526
Db	411	AAGGCAAGGTCGGGCTCTGGCTGATCCACTTGGGGCCNTGGAAGAGAGACAGACTTAT	470
OY	527	TACTAGATGATTCGCTGTGTCC	549
Db	471	TACTAGATGAATCGCTGTGTCC	493

Search completed: January 16, 2004, 01:08:06
Job time : 345 secs

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